

**ORANGE PAINT**

## PRODUCT SPECIFICATIONS

SHEBOYGAN PAINT COMPANY  
1439 NORTH 25th STREET  
P.O. BOX 417  
SHEBOYGAN, WI 53082-0417  
TELEPHONE (920) 458-2157

DATE OF PREPARATION 04/23/08  
PRINTED DATE 05/12/08  
TRANSPORTATION EMERGENCY (800) 688-4005

CUSTOMER SERVICE custserv@shebpaint.com

TRADE NAME  
NEW FAST DRY ORANGE HI-SOLIDS  
DIP ENAMEL

MFG. PRODUCT NO.  
43-62154B

CUSTOMER :  
PART NUMBER :  
WEIGHT PER GALLON :  
(density)

10.36 POUNDS

PERCENT SOLIDS

	BY WEIGHT	BY VOLUME
	68.79	54.99

PERCENT WATER

PERCENT SOLVENT

31.21 45.01

% EXEMPT SOLVENT

VOC (WITH WATER AND EXEMPT SOLV) : 3.23 LBS/GAL 387.08 GMS/LITER

VOC (LESS WATER AND EXEMPT SOLV) : 3.23 LBS/GAL 387.08 GMS/LITER

PERCENT HAPS BY WEIGHT	:	2.05
VOC LBS PER GALLON SOLIDS	:	5.87
VOC KILOGRMS PER KILOGRMS SOLIDS	:	.45
VOC HAPS LBS PER GALLON SOLIDS	:	.39
VOC HAPS LBS PER LBS SOLIDS	:	.03

FLASHPOINT (FAHRENHEIT) : 80 F

APPLICATION : DIP

REDUCTION : NONE

CURE : AIR DRY

SUBSTRATE : STEEL

COVERAGE : 882.04 SQUARE FEET @ 1 MIL NO LOSS

VISC @ 80 F : 20-27/3 ZAHN

CRYPTOMETER : 8-15#7 WEDGE

GLOSS : 85-95 OVERNIGHT DRY NO ADJ

COMMENTS

43-62154B

PAGE: 1

# MATERIAL SAFETY DATA SHEET

## FOR COATINGS, RESINS AND RELATED MATERIALS

HAZARD RATING    0 - MINIMAL    3 - SERIOUS  
                   1 - SLIGHT        4 - SEVERE  
                   2 - MODERATE    \* - CHRONIC

HMIS RATING    HEALTH - \* 2    FLAMMABILITY - 3    REACTIVITY - 0

### SECTION I

SHEBOYGAN PAINT COMPANY    DATE OF PREPARATION 04/23/08  
 1439 NORTH 25th STREET / P.O. BOX 417    TRANSPORTATION EMERGENCY (800) 688-4005  
 SHEBOYGAN, WI 53082-0417    EMAIL: custserv@shebpaint.com  
 TELEPHONE: (920) 458-2157

PRODUCT CLASS  
 SURFACE COATING

TRADE NAME  
 NEW FAST DRY ORANGE HI-SOLIDS  
 DIP ENAMEL

MFG PRODUCT NO.  
 43-62154B

### SECTION II - HAZARDOUS INGREDIENTS

NT INGREDIENT	CAS#	ACGIH TLV		ACGIH STEL		OSHA PEL		OSHA CEILING		LEL %	VAPOR PRESS	% BY
		PPM	mg/m3	PPM	mg/m3	PPM	mg/m3	PPM	mg/m3	VOLUM	mm/Hg	DEG F Wght
A 1,2,4-Trimethylbenzene	95-63-6	25.00	123.0	-----	-----	25.00	125.0	-----	-----	0.900	1.000 @ 56.	8.61
Aromatic Petroleum Distillate	64742-95-6	-----	-----	-----	-----	100.0	-----	-----	-----	1.000	3.000 @ 68.	
C n-Butyl Alcohol (skin)	71-36-3	-----	-----	-----	-----	100.0	300.0	-----	-----	1.400	4.400 @ 68.	4.68
C Xylene (mixed isomers)	VHAP 1330-20-7	100.0	434.0	150.0	651.0	100.0	435.0	-----	-----	1.000	5.100 @ 68.	1.40
C Ethyl Benzene	VHAP 100-41-4	100.0	434.0	125.0	543.0	100.0	435.0	-----	-----	1.000	10.00 @ 79.	0.30
1,3,5-Trimethylbenzene	108-67-8	-----	-----	-----	-----	-----	-----	-----	-----	1.000	----- @ ---	
Titanium Dioxide (dust)	13463-67-7	-----	10.00	-----	-----	-----	15.00	-----	-----	-----	----- @ ---	
WI Talc (dust)	14807-96-6	-----	2.000	-----	-----	-----	2.000	-----	-----	-----	----- @ ---	3.05
Barium Compound (Insoluble)	7727-43-7	-----	10.00	-----	-----	-----	5.000	-----	-----	-----	----- @ ---	18.1
C.I. Pigment Orange #5	3468-63-1	-----	-----	-----	-----	-----	-----	-----	-----	-----	----- @ ---	
Iron (III) Oxide (dust)	20344-49-4	-----	5.000	-----	-----	-----	10.00	-----	-----	-----	----- @ ---	

A -This toxic chemical is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40CFR372).  
 HAP = HAZARDOUS AIR POLLUTANT (SOLID)  
 VHAP = VOLATILE HAZARDOUS AIR POLLUTANT (VAPOR)  
 VOC content determined by EPA method 24.

C -This toxic chemical is subject to the reporting requirements of both Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40CFR372) and the Wisconsin Dept. of Natural Resources Administrative Code Chapter NR445.  
 VHAP = VOLATILE HAZARDOUS AIR POLLUTANT (VAPOR)  
 (skin) = OSHA Skin Absorption Hazard  
 HAP = HAZARDOUS AIR POLLUTANT (SOLID)  
 VOC content determined by EPA method 24.

WI-This chemical is subject to reporting procedures outlined in the Wisconsin Department of Natural Resources Administrative Code Chapters NR438 and/or NR445.

### SECTION III - PHYSICAL DATA

BOILING RANGE 241-390 F    VOC KG/KG SOLIDS=.45    VOC (WITH WATER AND EXEMPT SOLV) = 3.23 LBS/GAL    387 GMS/LITER  
                                   % HAPS BY WEIGHT= 2.05    VOC (LESS WATER AND EXEMPT SOLV) = 3.23 LBS/GAL    387 GMS/LITER

VAPOR DENSITY	EVAPORATION RATE	%VOLATILE BY WEIGHT	%VOLATILE BY VOLUME	WEIGHT PER GALLON	SPECIFIC GRAVITY	AVG SOLV DENSITY
VAPOR DENSITY HEAVIER THAN AIR	EVAPORATION RATE SLOWER THAN ETHER	31.21	45.01	10.3634	1.244	7.19

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## SECTION IV - FIRE & EXPLOSION HAZARDS

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PROPER SHIPPING NAME - PAINT, 3, UN1263, III

(FLASH POINT 73 to 100 DEGREES)

SHIPPING LABEL - FLAMMABLE (3) LABEL (LIM QTY IF 1 GALLON OR LESS) FLASHPOINT 80 F

EXTINGUISHING MEDIA: Use carbon dioxide or dry chemical for small fires. For large fires, use an alcohol-type or multi-purpose foam extinguishing agent. Water may be ineffective to extinguish fires involving this type of product.

UNUSUAL FIRE & EXPLOSION HAZARDS: Handling dry materials or dust created from this product may pose an explosion hazard. Use explosion proof equipment. Avoid dust accumulations. Always electrically bond/ground processing equipment. Use good housekeeping practices to keep dust to a minimum. Smoke from burning product may be toxic. Spilled product, residue, or dust may burn fiercely if ignited. Runoff firefighting water may contain toxic or acidic materials.

SPECIAL FIRE FIGHTING PROCEDURES: Water may be used to cool closed containers to prevent pressure buildup. Keep people away from any fire fighting operations involving chemicals. Wear a self-contained positive pressure breathing apparatus in addition to full protective gear.

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## SECTION V - HEALTH HAZARD

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EFFECTS OF OVEREXPOSURE: Irritation of the respiratory tract or acute nervous system depression characterized by headache, dizziness, staggered gait, confusion, unconsciousness, coma. There is no applicable information available regarding the carcinogen potential for this product as a whole, however any relevant information regarding any ingredient's status as a potential, suspect, or confirmed carcinogen is listed in SECTION V of the MSDS.

Chronic overexposure may damage the liver and/or kidneys, blood cells, cause cardiac sensations, hearing effects, and/or cause birth or fertility defects in lab animals.

Repeated and prolonged exposure to some solvents has been associated with permanent brain and nervous system damage.

Intentional misuse by deliberately concentrating & inhaling vapors from this product may be harmful or fatal.

Exposure limits for n-Butanol: (CAS# 71-36-3 Butyl Alcohol) ACGIH(TLV): Ceiling = 50 ppm or 152 mg/m3.

This product contains 1,2,4-trimethylbenzene which is on the New Jersey and Pennsylvania Right-to-Know lists. (Pseudocumene) CAS #96-63-3

This product contains aromatic naphtha, light which is on the Pennsylvania Right-to-Know list. CAS# 64742-95-6

This product contains n-Butyl Alcohol which is on the Pennsylvania & New Jersey Right-to-Know Lists.

Chemical Name: 1-Butanol CAS# 71-36-3

Ingestion of alcohol can increase the effects of overexposure from some solvents in this product.

Exposure to XYLENE can affect the cardiovascular, pulmonary, CNS, and gastrointestinal systems. Liver enzymes, serum electrolytes, EKG and chest X-ray should be done in cases of massive exposure to xylene.

ETHYLBENZENE (CAS# 100-41-4) is present in this product. Ethylbenzene has been classified by IARC as a possible human carcinogen group 2B. \* Ethylbenzene is a potential chronic health hazard and is on the New Jersey Right-to-Know list.

This product contains xylenes, mixed isomers which is on the New Jersey and Pennsylvania Right-to-Know Lists.

(benzene, dimethyl-) CAS# 1330-20-7

This product contains 1,3,5-trimethylbenzene which is on the New Jersey Right-to-Know List. CAS# 108-67-8

This product contains Titanium Dioxide, which is currently listed by OSHA and ACGIH as a nuisance dust hazard.

Exposure Limits for Titanium Dioxide(dust): OSHA (PEL): TWA =15 mg/m3 (total dust) 5mg/m3 (respirable)

ACGIH(TLV): TWA =10 mg/m3 (total dust).

Prolonged and continuous exposure to excessive concentration of dust of any kind without using a dust mask may have an adverse pulmonary effect on some people. This overexposure may result in coughing, sputum, and reduced lung capacity.

Pre-existing asthmatic conditions may worsen. Persons with lung diseases should not work in dusty areas unless a physician certifies their fitness to wear a respirator. (OSHA 1910.134). Liquid paint does not readily release dust.

Exposure Limits For Inert and Nuisance Dust Particulates Not Otherwise Classified: OSHA (PEL): TWA =15 mg/m3 (total dust) 5 mg/m3 (respirable fraction). ACGIH(TLV): TWA = 10 mg/m3 (total dust).

This product contains Talc (containing no asbestos) which is currently listed by OSHA & ACGIH as a nuisance dust hazard.

Prolonged exposure to dried talc particles can result in scarring of the lungs (talcosis) or of the covering of the lungs (pleural thickening). Excessive exposure to any dust may aggravate pre-existing respiratory conditions. Wet paint and paint overspray does not retain the hazardous properties of the dust particles.

Exposure Limits For Talc (containing no asbestos fibers): OSHA (PEL): TWA = 2 mg/m3 (respirable dust).

ACGIH(TLV): TWA = 2 mg/m3 (respirable fraction).

This product contains Barium Sulfate which is listed by OSHA and ACGIH as a nuisance dust. Long term overexposure to barium sulfate dust may produce benign Pneumoconiosis termed "baritosis" and may reduce lung functions.

Exposure Limits For Barium Sulfate: (CAS# 7727-43-7) OSHA (PEL): TWA =10 mg/m3 (total dust), 5 mg/m3 (respirable)

ACGIH(TLV): TWA =10 mg/m3 (total dust).

This product contains Barium Sulfate which is on the New Jersey, Massachusetts or Pennsylvania Right-to-Know Lists.

CAS #7727-43-7

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This product contains C.I. Pigment Orange #5 which has been reported to be an invitro mutagen. The FDA has concluded that this pigment is an animal carcinogen by ingestion. Liver effects have also been observed in laboratory animal tests. There are no definitive findings linked to humans.

Chronic overexposure may cause allergic skin reactions, respiratory irritation, inflammation and asthma-like symptoms.

This product contains an organic pigment which is listed as a hazardous substance. If exposed to high temperatures or fire for an extended period of time, the product may smolder or burn giving off noxious fumes which can include oxides of nitrogen and carbon or other toxic compounds.

This product contains Iron Oxide, which is currently listed by OSHA & ACGIH as a fume hazard. Overexposure to dried particles may pose hazards to the eyes, ears & nose. Injury to the skin or mucous membranes can occur by rigorous skin cleaning or direct mechanical abrasion. Long term exposure to dust without respiratory protection may cause siderosis, a benign pneumoconiosis. Wet paint or paint overspray would not retain the hazardous properties of the dust particles.

This product contains C.I. Pigment Yellow #42 which is on the Pennsylvania Right-to-Know List. CAS# 20344-49-4

This product contains trace amounts of naturally occurring arsenic, chromium and nickel. These metals have not been added but are part of the pigment mineral ore. Potential exposure to the California Prop 65 chemicals in this pigment have been determined to be below the No Significant Risk Level (NSRL).

Exposure Limits For Iron Oxide (fume): (CAS# 1309-37-1) OSHA (PEL): TWA =10 mg/m3 (as total particulates)

ACGIH(TLV): TWA = 5 mg/m3.

This product contains stoddard solvent which is on the New Jersey and Pennsylvania Right-to-Know Lists. CAS# 8052-41-3

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: Preexisting eye, skin, central nervous system, digestive tract, and respiratory tract. May adversely affect persons with liver, kidney & blood forming organ disorders.

ROUTE(S) OF ENTRY: Inhalation, skin contact absorption, eye contact. Products that are free-flowing liquids or pastes are not expected to have routes of exposure for dust. Dried product residue may exhibit dust inhalation hazards.

INHALATION: May cause slight to moderate respiratory tract irritation accompanied by congestion, headache, weakness, dizziness, drowsiness, and/or nausea. FIRST AID: Move person to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and get immediate emergency medical assistance.

EYE CONTACT: Liquid, vapor or dust may cause moderate to severe irritation, redness, tearing, blurred vision & pain.

Prolonged or chronic overexposure may cause eye damage. FIRST AID: Flush eyes with large amounts of water for at least 15 minutes. Hold eyelids apart to flush the entire contaminated area. Get medical help if irritation persists.

SKIN CONTACT: May cause moderate to severe skin irritation. May cause burning sensations, defatting and/or dermatitis. Chronic overexposure may cause skin cracking and/or eczema. FIRST AID: Remove contaminated clothing and shoes. Wash area with soap and water. Get medical attention as needed.

SKIN ABSORPTION: May be absorbed through skin tissues. Chronic overexposure to the skin without using protective barriers (gloves, aprons, etc.) may cause toxic effects.

INGESTION: Single dose oral toxicity is low. May cause irritation to the gastrointestinal tract. Ingestion may cause nausea, discomfort, diarrhea, dizziness and vomiting. FIRST AID: DO NOT INDUCE VOMITING! Contents of this product pose an inhalation hazard. If aspirated into the lungs, may cause chemical pneumonitis and/or pulmonary edema which can be fatal. Never leave individual unattended, keep head low to prevent aspiration. SEEK IMMEDIATE MEDICAL ATTENTION!

## ----- SECTION VI - REACTIVITY DATA -----

STABILITY: ☐ UNSTABLE ☒ STABLE

INCOMPATIBILITY (Materials to avoid): Keep away from all oxidizing materials, avoid strong acids & alkalis (caustics) and never distill solvents to dryness. Material can react violently under such conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon/nitrogen, metal oxides and/or silicon dioxide fumes and other toxic or irritating vapors such as incompletely burned hydrocarbons, aldehydes, amines, HCN and/or sulfur oxides.

HAZARDOUS POLYMERIZATION: ☐ May Occur ☒ Will Not Occur

CONDITIONS TO AVOID: Container is not a pressure vessel. Never use pressure to empty. Do not drag, puncture or drop container (prevent sparking). Dust particles from this product may pose a flammable or explosion hazard. Avoid dust accumulations. Containers should be grounded.

## ----- SECTION VII - SPILL OR LEAK PROCEDURES -----

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Remove all sources of ignition(flames), electrical static or frictional sparks. Provide good ventilation to spill area. Dike spill area and add inert absorbent. Remove spilled material with non-sparking tools. Avoid breathing vapors and use respirator protective devices (SEE SECTION VIII). Only properly trained personnel should clean spilled hazards. Follow local, state and federal spill notification rules.

WASTE DISPOSAL: Consult licensed waste handling and/or transportation facility. Follow local, state and federal waste regulations. Do not incorporate into municipal sewage treatment facilities. Empty containers retain product residue, follow label and MSDS warnings even after container is emptied.

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## SECTION VIII - SAFE HANDLING & USE INFO

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**RESPIRATORY PROTECTION:** In outdoor or open areas with unrestricted ventilation, use NIOSH approved dust mask to protect from overspray or solid airborne particulates. In restricted areas, use a NIOSH approved combination organic vapor and particulate respirator. Reference OSHA 1910.134 for specific guidelines. In confined areas use an airline respirator hood, supplied air respirator or self contained breathing apparatus. See OSHA 1910.146 for more details.

**VENTILATION:** Provide sufficient ventilation to keep hazards at levels below current ACGIH TLV and OSHA PEL of the most hazardous ingredient in SECTION II. Solvent vapors must be removed from the lower levels of work areas and all ignition sources eliminated. Remove decomposition products formed by welding or flame cutting coated surfaces. Dust and particle hazards are elevated during sanding, grinding, or surface preparation of previously coated surfaces.

**SKIN PROTECTION REQUIREMENTS:** Chemical resistant gloves are recommended. Use neoprene, nitrile, or butyl rubber. Cover as much of the exposed skin as possible with appropriate impervious clothing. If skin creams are used, keep the area protected by the cream to a minimum. Do not use skin creams to protect skin when working with acids or acid catalysts.

**EYE PROTECTION:** Eye protection should be worn in any type of industrial operation. The use of chemical goggles and a full face shield to prevent splash from liquids is recommended. Contact lenses should not be worn.

**OTHER PROTECTIVE EQUIPMENT:** Using a suit or apron to prevent contamination of clothing is recommended. Prevent prolonged skin contact with contaminated clothing. Remove and wash all contaminated clothing before re-use. Never wear contaminated clothes or shoes away from the workplace. Use an industrial type professional cleaning service, do not wash at home.

**HYGIENIC PRACTICES:** Emergency eye wash stations and safety showers are recommended. Wash hands prior to eating, using the washroom or smoking. Precautions must be taken so that persons handling this product do not breathe the vapors or have it contact the skin or eyes. In spray operations, protection must be afforded against exposure to both vapor and spray mist.

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## SECTION IX - SPECIAL PRECAUTIONS

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**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Store large quantities in buildings designed and protected for storage of flammable liquids. Reference storage conditions in OSHA 1910.106. Avoid high temperature areas and open flames. Do not store above 120 F. Keep closures tight and container upright to avoid leakage.

**OTHER PRECAUTIONS:** Maintain a clean work area. Use only in a well ventilated area. VHAP=VOLATILE HAZARDOUS AIR POLLUTANT  
**CAUTION! DO NOT TAKE INTERNALLY.** Avoid breathing vapor/dust.

**NOTICE:** The HMIS rating for this material involves data and interpretations compiled from the various material suppliers of the component ingredients. This information will vary from supplier to supplier. The rating is intended for rapid and general identification of this product's hazards. To adequately deal with the safe handling of this material, all information contained in the MSDS must be reviewed as part of an ongoing Hazard Communication Program.

This product complies with the Toxic Substances Control Act (TSCA) 40 CFR 700-799. The Material Safety Data Sheet (MSDS) complies with 29 CFR 1910.1200, Hazardous Communication Std. In the event of a TRANSPORTATION RELATED INCIDENT involving this product, CALL 1-800-688-4005. VOC content is determined by EPA method 24.

**WARNING!** Sudden release of hot organic chemical vapors from equipment operating at elevated temperatures or sudden introduction to vacuum conditions may result in vapor ignition.

**SARA Title III:** This product is regulated under Section 311- 312 (40CFR370): Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard, Fire Hazard.

**WARNING!** This product contains chemicals known to the State of California to cause cancer or reproductive harm.

**BLUE PAINT**

## PRODUCT SPECIFICATIONS

SHEBOYGAN PAINT COMPANY  
1439 NORTH 25th STREET  
P.O. BOX 417  
SHEBOYGAN, WI 53082-0417  
TELEPHONE (920) 458-2157

DATE OF PREPARATION 01/01/08  
PRINTED DATE 06/03/08  
TRANSPORTATION EMERGENCY (800) 688-4005  
CUSTOMER SERVICE custserv@shebpaint.com

TRADE NAME  
NEW FD BLUE H/S DIP

MFG. PRODUCT NO.  
43-41491B

CUSTOMER :  
PART NUMBER :  
WEIGHT PER GALLON :  
(density)

10.33 POUNDS

PERCENT SOLIDS

BY WEIGHT BY VOLUME  
: 68.40 54.55

PERCENT WATER

PERCENT SOLVENT

: 31.60 45.45

% EXEMPT SOLVENT

VOC (WITH WATER AND EXEMPT SOLV) : 3.26 LBS/GAL 390.68 GMS/LITER

VOC (LESS WATER AND EXEMPT SOLV) : 3.26 LBS/GAL 390.68 GMS/LITER

PERCENT HAPS BY WEIGHT : 1.04  
VOC LBS PER GALLON SOLIDS : 5.98  
VOC KILOGRMS PER KILOGRMS SOLIDS : .46  
VOC HAPS LBS PER GALLON SOLIDS : .20  
VOC HAPS LBS PER LBS SOLIDS : .02

FLASHPOINT (FAHRENHEIT) : 95 F

APPLICATION : DIP

REDUCTION : NONE

CURE : AIR DRY

SUBSTRATE : STEEL

COVERAGE : 874.982 SQUARE FEET @ 1 MIL NO LOSS

VISC @ 80 F : 20-26/3 ZAHN

CRYPTOMETER : 8-15#7 WEDGE

GLOSS : 85-95 OVERNIGHT DRY NO ADJ

COMMENTS



PAGE: 1

HAZARD RATING	0 - MINIMAL	3 - SERIOUS
	1 - SLIGHT	4 - SEVERE
	2 - MODERATE	* - CHRONIC

HMIS RATING      HEALTH - \* 2      FLAMMABILITY - 3      REACTIVITY - 0

SHEBOYGAN PAINT COMPANY  
1439 NORTH 25th STREET / P.O. BOX 417  
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TELEPHONE: (920) 458-2157

DATE OF PREPARATION 01/01/08  
TRANSPORTATION EMERGENCY (800) 688-4005  
EMAIL: [custserv@shebpaint.com](mailto:custserv@shebpaint.com)

MFG PRODUCT NO.  
43-41491B

NT	INGREDIENT	CAS#	ACGIH	TLV	ACGIH	STEL	OSHA	PEL	OSHA	CEILING	LEL %	VAPOR	PRESS	% BY
			PPM	mg/m3	PPM	mg/m3	PPM	mg/m3	PPM	mg/m3	VOLUM	mm/Hg	DEG F	Wght
A	1,2,4-Trimethylbenzene	95-63-6	25.00	123.0	-----	-----	25.00	125.0	-----	-----	0.900	1.000	@ 56.	9.20
	Aromatic Petroleum Distillate	64742-95-6	-----	-----	-----	-----	100.0	-----	-----	-----	1.000	3.000	@ 68.	
C	n-Butyl Alcohol (skin)	71-36-3	-----	-----	-----	-----	100.0	300.0	-----	-----	1.400	4.400	@ 68.	4.91
	Titanium Dioxide (dust)	13463-67-7	-----	10.00	-----	-----	-----	15.00	-----	-----	-----	-----	@ ---	
WI	Talc (dust)	14807-96-6	-----	2.000	-----	-----	-----	2.000	-----	-----	-----	-----	@ ---	3.19
	Barium Compound (Insoluble)	7727-43-7	-----	10.00	-----	-----	-----	5.000	-----	-----	-----	-----	@ ---	19.0
C	Ethyl Benzene	VHAP 100-41-4	100.0	434.0	125.0	543.0	100.0	435.0	-----	-----	1.000	10.00	@ 79.	0.08
	1,3,5-Trimethylbenzene	108-67-8	-----	-----	-----	-----	-----	-----	-----	-----	1.000	-----	@ ---	

WI-This chemical is subject to reporting procedures outlined in the Wisconsin Department of Natural Resources Administrative Code Chapters NR438 and/or NR445.

BOILING RANGE	241-730 F	VOC KG/KG SOLIDS=.46	VOC (WITH WATER AND EXEMPT SOLV) =	3.26 LBS/GAL	391 GMS/LITER		
		% HAPS BY WEIGHT= 1.04	VOC (LESS WATER AND EXEMPT SOLV) =	3.26 LBS/GAL	391 GMS/LITER		
VAPOR DENSITY		EVAPORATION RATE	%VOLATILE BY WEIGHT	%VOLATILE BY VOLUME	WEIGHT PER GALLON	SPECIFIC GRAVITY	AVG SOLV DENSITY
VAPOR DENSITY HEAVIER THAN AIR		EVAPORATION RATE SLOWER THAN ETHER	31.6	45.45	10.3294	1.24	7.18

PROPER SHIPPING NAME - PAINT, 3, UN1263, III (FLASH POINT 73 to 100 DEGREES)  
SHIPPING LABEL - FLAMMABLE (3) LABEL (LIM QTY IF 1 GALLON OR LESS) FLASHPOINT 95 F

EXTINGUISHING MEDIA: Use carbon dioxide or dry chemical for small fires. For large fires, use an alcohol-type or multi-purpose foam extinguishing agent. Water may be ineffective to extinguish fires involving this type of product.

UNUSUAL FIRE & EXPLOSION HAZARDS: Handling dry materials or dust created from this product may pose an explosion hazard. Use explosion proof equipment. Avoid dust accumulations. Always electrically bond/ground processing equipment. Use good housekeeping practices to keep dust to a minimum. Smoke from burning product may be toxic. Spilled product, residue, or dust may burn fiercely if ignited. Runoff firefighting water may contain toxic or acidic materials.

SPECIAL FIRE FIGHTING PROCEDURES: Water spray may be ineffective. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition when exposed to extreme heat. Water fog nozzle settings are preferable. A self-contained positive pressure breathing apparatus with full-face piece should be worn in addition to full firefighting safety equipment. Keep unnecessary people away, isolate hazards, stay upwind, keep out of low areas.

## SECTION V - HEALTH HAZARD

EFFECTS OF OVEREXPOSURE: Irritation of the respiratory tract or acute nervous system depression characterized by headache, dizziness, staggered gait, confusion, unconsciousness, coma. There is no applicable information available regarding the carcinogen potential for this product as a whole, however any relevant information regarding any ingredient's status as a potential, suspect, or confirmed carcinogen is listed in SECTION V of the MSDS.

Chronic overexposure may damage the liver and/or kidneys, blood cells, cause cardiac sensations, hearing effects, and/or cause birth or fertility defects in lab animals.

Repeated and prolonged exposure to some solvents has been associated with permanent brain and nervous system damage.

Intentional misuse by deliberately concentrating & inhaling vapors from this product may be harmful or fatal.

Exposure limits for n-Butanol: (CAS# 71-36-3 Butyl Alcohol) ACGIH(TLV): Ceiling = 50 ppm or 152 mg/m3.

This product contains 1,2,4-trimethylbenzene which is on the New Jersey and Pennsylvania Right-to-Know lists.

(Pseudocumene) CAS #96-63-3

This product contains aromatic naphtha, light which is on the Pennsylvania Right-to-Know list. CAS# 64742-95-6

This product contains n-Butyl Alcohol which is on the Pennsylvania & New Jersey Right-to-Know Lists.

Chemical Name: 1-Butanol CAS# 71-36-3

This product contains Titanium Dioxide, which is currently listed by OSHA and ACGIH as a nuisance dust hazard.

Exposure Limits for Titanium Dioxide(dust): OSHA (PEL): TWA =15 mg/m3 (total dust) 5mg/m3 (respirable)

ACGIH(TLV): TWA =10 mg/m3 (total dust).

Prolonged and continuous exposure to excessive concentration of dust of any kind without using a dust mask may have an adverse pulmonary effect on some people. This overexposure may result in coughing, sputum, and reduced lung capacity.

Pre-existing asthmatic conditions may worsen. Persons with lung diseases should not work in dusty areas unless a physician certifies their fitness to wear a respirator. (OSHA 1910.134). Liquid paint does not readily release dust.

Exposure Limits For Inert and Nuisance Dust Particulates Not Otherwise Classified: OSHA (PEL): TWA =15 mg/m3 (total dust) 5 mg/m3 (respirable fraction). ACGIH(TLV): TWA = 10 mg/m3 (total dust).

This product contains Talc (containing no asbestos) which is currently listed by OSHA & ACGIH as a nuisance dust hazard.

Prolonged exposure to dried talc particles can result in scarring of the lungs (talcosis) or of the covering of the lungs (pleural thickening). Excessive exposure to any dust may aggravate pre-existing respiratory conditions. Wet paint and paint overspray does not retain the hazardous properties of the dust particles.

Exposure Limits For Talc (containing no asbestos fibers): OSHA (PEL): TWA = 2 mg/m3 (respirable dust).

ACGIH(TLV): TWA = 2 mg/m3 (respirable fraction).

This product contains Barium Sulfate which is listed by OSHA and ACGIH as a nuisance dust. Long term overexposure to barium sulfate dust may produce benign Pneumoconiosis termed "baritosis" and may reduce lung functions.

Exposure Limits For Barium Sulfate: (CAS# 7727-43-7) OSHA (PEL): TWA =10 mg/m3 (total dust), 5 mg/m3 (respirable)

ACGIH(TLV): TWA =10 mg/m3 (total dust).

This product contains Barium Sulfate which is on the New Jersey, Massachusetts or Pennsylvania Right-to-Know Lists.

CAS #7727-43-7

Ingestion of alcohol can increase the effects of overexposure from some solvents in this product.

ETHYLBENZENE (CAS# 100-41-4) is present in this product. Ethylbenzene has been classified by IARC as a possible human carcinogen group 2B. \* Ethylbenzene is a potential chronic health hazard and is on the New Jersey Right-to-Know list.

This product contains 1,3,5-trimethylbenzene which is on the New Jersey Right-to-Know List. CAS# 108-67-8

This product contains a copper compound. Pigment Blue 15 CAS# 147-14-8; Pigment Green 7 CAS# 1328-53-6; and Pigment Green 36 CAS# 14302-13-7 ARE ALL EXEMPT FROM REPORTING REQUIREMENTS UNDER THE CATEGORY "COPPER COMPOUNDS" from the list of toxic chemicals under section 313, EPCRA. These pigments contain up to 10% elemental copper by weight, CAS# 7440-50-8 which is on the SARA 313 list of chemicals.

This product contains C.I. Pigment Blue #15 which is on the Pennsylvania, MASS & NJ Right-to-Know List. CHEMICAL Name: Copper, [29]1,3[H-phthalocyanato(2-)-N29,N30,N31,N32]- (SP-4-1)- CAS# 147-14-8

Chronic overexposure may cause skin sensitization.

This product contains stoddard solvent which is on the New Jersey and Pennsylvania Right-to-Know Lists. CAS# 8052-41-3

This product contains Zirconium Compounds which are listed by OSHA and ACGIH as a metal fume and/or dust hazard.

Exposure Limits For Zirconium Compounds: OSHA (PEL): TWA = 5 mg/m3. ACGIH (TLV): TWA = 5 mg/m3, (TLV): STEL = 10 mg/m3.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: Preexisting eye, skin, central nervous system, digestive tract, and respiratory tract. May adversely affect persons with liver, kidney & blood forming organ disorders.

ROUTE(S) OF ENTRY: Inhalation, skin contact absorption, eye contact. Products that are free-flowing liquids or pastes are not expected to have routes of exposure for dust. Dried product residue may exhibit dust inhalation hazards.

INHALATION: May cause slight to moderate respiratory tract irritation accompanied by congestion, headache, weakness, dizziness, drowsiness, and/or nausea. FIRST AID: Move person to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and get immediate emergency medical assistance.

EYE CONTACT: Liquid, vapor or dust may cause moderate to severe irritation, redness, tearing, blurred vision & pain. Prolonged or chronic overexposure may cause eye damage. FIRST AID: Flush eyes with large amounts of water for at least 15 minutes. Hold eyelids apart to flush the entire contaminated area. Get medical help if irritation persists.

SKIN CONTACT: May cause moderate to severe skin irritation. May cause burning sensations, defatting and/or dermatitis. Chronic overexposure may cause skin cracking and/or eczema. FIRST AID: Remove contaminated clothing and shoes. Wash area with soap and water. Get medical attention as needed.

SKIN ABSORPTION: May be absorbed through skin tissues. Chronic overexposure to the skin without using protective barriers (gloves, aprons, etc.) may cause toxic effects.

INGESTION: Single dose oral toxicity is low. May cause irritation to the gastrointestinal tract. Ingestion may cause nausea, discomfort, diarrhea, dizziness and vomiting. FIRST AID: DO NOT INDUCE VOMITING! Contents of this product pose an inhalation hazard. If aspirated into the lungs, may cause chemical pneumonitis and/or pulmonary edema which can be fatal. Never leave individual unattended, keep head low to prevent aspiration. SEEK IMMEDIATE MEDICAL ATTENTION!

## SECTION VI - REACTIVITY DATA

STABILITY: \_\_\_\_\_ UNSTABLE \_\_XX\_\_ STABLE

INCOMPATIBILITY (materials to avoid): Strong oxidizers. Strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon/nitrogen, metal oxides and/or silicon dioxide fumes and other toxic or irritating vapors such as incompletely burned hydrocarbons, aldehydes, amines, HCN and/or sulfur oxides.

HAZARDOUS POLYMERIZATION: \_\_\_\_\_ May Occur \_\_XX\_\_ Will Not Occur

CONDITIONS TO AVOID: Container is not a pressure vessel. Never use pressure to empty. Do not drag, puncture or drop container (prevent sparking). Dust particles from this product may pose a flammable or explosion hazard. Avoid dust accumulations. Containers should be grounded.

## SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Remove all sources of ignition (flames), electrical static or frictional sparks. Provide good ventilation to spill area. Dike spill area and add inert absorbent. Remove spilled material with non-sparking tools. Avoid breathing vapors and use respirator protective devices (SEE SECTION VIII). Only properly trained personnel should clean spilled hazards. Follow local, state and federal spill notification rules.

WASTE DISPOSAL: Consult licensed waste handling and/or transportation facility. Follow local, state and federal waste regulations. Do not incorporate into municipal sewage treatment facilities. Empty containers retain product residue, follow label and MSDS warnings even after container is emptied.

## SECTION VIII - SAFE HANDLING & USE INFO

RESPIRATORY PROTECTION: In outdoor or open areas with unrestricted ventilation, use NIOSH approved dust mask to protect from overspray or solid airborne particulates. In restricted areas, use a NIOSH approved combination organic vapor and particulate respirator. Reference OSHA 1910.134 for specific guidelines. In confined areas use an airline respirator hood, supplied air respirator or self contained breathing apparatus. See OSHA 1910.146 for more details.

VENTILATION: Provide sufficient ventilation to keep hazards at levels below current ACGIH TLV and OSHA PEL of the most hazardous ingredient in SECTION II. Solvent vapors must be removed from the lower levels of work areas and all ignition sources eliminated. Remove decomposition products formed by welding or flame cutting coated surfaces. Dust and particle hazards are elevated during sanding, grinding, or surface preparation of previously coated surfaces.

SKIN PROTECTION REQUIREMENTS: Chemical resistant gloves are recommended. Use neoprene, nitrile, or butyl rubber. Cover as much of the exposed skin as possible with appropriate impervious clothing. If skin creams are used, keep the area protected by the cream to a minimum. Do not use skin creams to protect skin when working with acids or acid catalysts.

EYE PROTECTION: Eye protection should be worn in any type of industrial operation. The use of chemical goggles and a full face shield to prevent splash from liquids is recommended. Contact lenses should not be worn.

OTHER PROTECTIVE EQUIPMENT: Using a suit or apron to prevent contamination of clothing is recommended. Prevent prolonged skin contact with contaminated clothing. Remove and wash all contaminated clothing before re-use. Never wear contaminated clothes or shoes away from the workplace. Use an industrial type professional cleaning service, do not wash at home.

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HYGIENIC PRACTICES: Emergency eye wash stations and safety showers are recommended. Wash hands prior to eating, using the washroom or smoking. Precautions must be taken so that persons handling this product do not breathe the vapors or have it contact the skin or eyes. In spray operations, protection must be afforded against exposure to both vapor and spray mist.

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## SECTION IX - SPECIAL PRECAUTIONS

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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store large quantities in buildings designed and protected for storage of flammable liquids. Reference storage conditions in OSHA 1910.106. Avoid high temperature areas and open flames. Do not store above 120 F. Keep closures tight and container upright to avoid leakage.

OTHER PRECAUTIONS: Maintain a clean work area. Use only in a well ventilated area. VHAP=VOLATILE HAZARDOUS AIR POLLUTANT CAUTION! DO NOT TAKE INTERNALLY. Avoid breathing vapor/dust.

NOTICE: The HMIS rating for this material involves data and interpretations compiled from the various material suppliers of the component ingredients. This information will vary from supplier to supplier. The rating is intended for rapid and general identification of this product's hazards. To adequately deal with the safe handling of this material, all information contained in the MSDS must be reviewed as part of an ongoing Hazard Communication Program.

This product complies with the Toxic Substances Control Act (TSCA) 40 CFR 700-799. The Material Safety Data Sheet (MSDS) complies with 29 CFR 1910.1200, Hazardous Communication Std. In the event of a TRANSPORTATION RELATED INCIDENT involving this product, CALL 1-800-688-4005. VOC content is determined by EPA method 24.

WARNING! Sudden release of hot organic chemical vapors from equipment operating at elevated temperatures or sudden introduction to vacuum conditions may result in vapor ignition.

SARA Title III: This product is regulated under Section 311- 312 (40CFR370): Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard, Fire Hazard.

WARNING! This product contains chemicals known to the State of California to cause cancer or reproductive harm.

**YELLOW PAINT**

## PRODUCT SPECIFICATIONS

SHEBOYGAN PAINT COMPANY  
1439 NORTH 25th STREET  
P.O. BOX 417  
SHEBOYGAN, WI 53082-0417  
TELEPHONE (920) 458-2157

DATE OF PREPARATION 01/01/08  
PRINTED DATE 05/13/08  
TRANSPORTATION EMERGENCY (800) 688-4005

CUSTOMER SERVICE custserv@shebpaint.com

TRADE NAME  
MDI YELLOW QUICK-DRY HI-SOLIDS  
SPRAY ENAMEL

MFG. PRODUCT NO.  
43-62069

CUSTOMER :  
PART NUMBER :  
WEIGHT PER GALLON :  
(density)

10.13 POUNDS

PERCENT SOLIDS

BY WEIGHT BY VOLUME  
: 64.91 50.95

PERCENT WATER

PERCENT SOLVENT

: 32.91 46.19

% EXEMPT SOLVENT

: 2.18 2.86

VOC (WITH WATER AND EXEMPT SOLV) :

3.33 LBS/GAL 399.06 GMS/LITER

VOC (LESS WATER AND EXEMPT SOLV) :

3.43 LBS/GAL 411.05 GMS/LITER

PERCENT HAPS BY WEIGHT

: 31.80

VOC LBS PER GALLON SOLIDS

: 6.54

VOC KILOGRMS PER KILOGRMS SOLIDS:

: .51

VOC HAPS LBS PER GALLON SOLIDS

: 6.32

VOC HAPS LBS PER LBS SOLIDS

: .49

FLASHPOINT (FAHRENHEIT)

: 9 F

APPLICATION

: SPRAY

REDUCTION

: NONE

CURE

: AIR DRY

SUBSTRATE

: STEEL

COVERAGE

: 817.238 SQUARE FEET @ 1 MIL NO LOSS

VISC @ 80 F

: 40-50#2 ZAHN,

GLOSS

: 80-90@1 MIL CHECK OVERNIGHT

COMMENTS

# MATERIAL SAFETY DATA SHEET

## FOR COATINGS, RESINS AND RELATED MATERIALS

HAZARD RATING    0 - MINIMAL    3 - SERIOUS  
                      1 - SLIGHT    4 - SEVERE  
                      2 - MODERATE    \* - CHRONIC

HMIS RATING    HEALTH - \* 2    FLAMMABILITY - 3    REACTIVITY - 0

### SECTION I

SHEBOYGAN PAINT COMPANY    DATE OF PREPARATION 01/01/08  
 1439 NORTH 25th STREET / P.O. BOX 417    TRANSPORTATION EMERGENCY (800) 688-4005  
 SHEBOYGAN, WI 53082-0417    EMAIL: custserv@shebpaint.com  
 TELEPHONE: (920) 458-2157

PRODUCT CLASS  
 SURFACE COATING

TRADE NAME  
 MDI YELLOW QUICK-DRY HI-SOLIDS  
 SPRAY ENAMEL

MFG PRODUCT NO.  
 43-62069

### SECTION II - HAZARDOUS INGREDIENTS

NT INGREDIENT	CAS#	ACGIH TLV		ACGIH STEL		OSHA PEL		OSHA CEILING		LEL %	VAPOR PRESS	% BY Wght
		PPM	mg/m3	PPM	mg/m3	PPM	mg/m3	PPM	mg/m3	VOLUM	mm/Hg DEG F	
C Xylene (mixed isomers)	VHAP 1330-20-7	100.0	434.0	150.0	651.0	100.0	435.0	-----	-----	1.000	5.100 @ 68.	19.1
C Ethyl Benzene	VHAP 100-41-4	100.0	434.0	125.0	543.0	100.0	435.0	-----	-----	1.000	10.00 @ 79.	4.66
C.I. Pigment Yellow #74	6358-31-2	-----	-----	-----	-----	-----	-----	-----	-----	-----	@ ---	---
C.I. Pigment Yellow #74	6358-31-2	-----	-----	-----	-----	-----	-----	-----	-----	-----	@ ---	---
Titanium Dioxide (dust)	13463-67-7	-----	10.00	-----	-----	-----	15.00	-----	-----	-----	@ ---	---
Silicate Complex (dust)	37244-96-5	-----	10.00	-----	15.00	-----	15.00	-----	-----	-----	@ ---	---
Barium Compound (Insoluble)	7727-43-7	-----	10.00	-----	-----	-----	5.000	-----	-----	-----	@ ---	4.31
C Toluene (Toluol) (skin)	VHAP 108-88-3	50.00	188.0	-----	-----	200.0	-----	300.0	-----	1.000	22.00 @ 68.	3.46
Hydrocarbon Resin	Proprietary	-----	-----	-----	-----	-----	-----	-----	-----	-----	@ ---	---
C Methyl Isobutyl Ketone	VHAP 108-10-1	50.00	205.0	75.00	307.0	100.0	410.0	-----	-----	1.200	15.00 @ 68.	4.44
EX Methyl Acetate	79-20-9	200.0	606.0	250.0	757.0	200.0	610.0	-----	-----	3.100	163.0 @ 68.	2.18

C -This toxic chemical is subject to the reporting requirements of both Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40CFR372) and the Wisconsin Dept. of Natural Resources Administrative Code Chapter NR445.  
 VHAP = VOLATILE HAZARDOUS AIR POLLUTANT (VAPOR)    HAP = HAZARDOUS AIR POLLUTANT (SOLID)  
 (skin) = OSHA Skin Absorption Hazard    VOC content determined by EPA method 24.

EX-This solvent is exempt from EPA VOC reporting requirements.

### SECTION III - PHYSICAL DATA

BOILING RANGE 133-730 F	VOC KG/KG SOLIDS=.51	VOC (WITH WATER AND EXEMPT SOLV) = 3.33 LBS/GAL				399 GMS/LITER
	% HAPS BY WEIGHT= 31.80	VOC (LESS WATER AND EXEMPT SOLV) = 3.43 LBS/GAL				411 GMS/LITER
VAPOR DENSITY	EVAPORATION RATE	%VOLATILE BY WEIGHT	%VOLATILE BY VOLUME	WEIGHT PER GALLON	SPECIFIC GRAVITY	AVG SOLV DENSITY
VAPOR DENSITY HEAVIER THAN AIR	EVAPORATION RATE SLOWER THAN ETHER	35.09	49.05	10.1317	1.216	7.25

### SECTION IV - FIRE & EXPLOSION HAZARDS

PROPER SHIPPING NAME - PAINT, 3, UN1263, II  
 SHIPPING LABEL - FLAMMABLE LIQUID (3) LABEL

FLASHPOINT 9 F

EXTINGUISHING MEDIA: Use carbon dioxide or dry chemical for small fires. For large fires, use an alcohol-type or multi-purpose foam extinguishing agent. Water may be ineffective to extinguish fires involving this type of product.

UNUSUAL FIRE & EXPLOSION HAZARDS: This material is HIGHLY VOLATILE and readily gives off vapors which may travel along the ground or be moved by ventilation! Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flames. Sealed containers may explode if exposed to extreme heat. Do not apply to hot surfaces. This product may become electrostatically charged during mixing, filtering or pouring. Bond and ground metal containers. SPECIAL FIRE FIGHTING PROCEDURES: Water may be used to cool closed containers to prevent pressure buildup. Keep people away from any fire fighting operations involving chemicals. Wear a self-contained positive pressure breathing apparatus in addition to full protective gear.

## SECTION V - HEALTH HAZARD

EFFECTS OF OVEREXPOSURE: Irritation of the respiratory tract or acute nervous system depression characterized by headache, dizziness, staggered gait, confusion, unconsciousness, coma. There is no applicable information available regarding the carcinogen potential for this product as a whole, however any relevant information regarding any ingredient's status as a potential, suspect, or confirmed carcinogen is listed in SECTION V of the MSDS.

Chronic overexposure may damage the liver and/or kidneys, blood cells, cause cardiac sensations, hearing effects, and/or cause birth or fertility defects in lab animals.

Repeated and prolonged exposure to some solvents has been associated with permanent brain and nervous system damage.

Intentional misuse by deliberately concentrating & inhaling vapors from this product may be harmful or fatal.

Ingestion of alcohol can increase the effects of overexposure from some solvents in this product.

Exposure to XYLENE can affect the cardiovascular, pulmonary, CNS, and gastrointestinal systems. Liver enzymes, serum electrolytes, EKG and chest X-ray should be done in cases of massive exposure to xylene.

ETHYLBENZENE (CAS# 100-41-4) is present in this product. Ethylbenzene has been classified by IARC as a possible human carcinogen group 2B. \* Ethylbenzene is a potential chronic health hazard and is on the New Jersey Right-to-Know list.

This product contains xylenes, mixed isomers which is on the New Jersey and Pennsylvania Right-to-Know Lists.

(benzene, dimethyl-) CAS# 1330-20-7

Prolonged and continuous exposure to excessive concentration of dust of any kind without using a dust mask may have an adverse pulmonary effect on some people. This overexposure may result in coughing, sputum, and reduced lung capacity.

Pre-existing asthmatic conditions may worsen. Persons with lung diseases should not work in dusty areas unless a physician certifies their fitness to wear a respirator. (OSHA 1910.134). Liquid paint does not readily release dust.

Exposure Limits For Inert and Nuisance Dust Particulates Not Otherwise Classified: OSHA (PEL): TWA =15 mg/m3 (total dust) 5 mg/m3 (respirable fraction). ACGIH(TLV): TWA = 10 mg/m3 (total dust).

This product contains C.I. Pigment Yellow #74 which is on the Pennsylvania Right-to-Know List. CHEMICAL NAME:

Butanamide, 2-[(2-methoxy-4-nitrophenyl)azo]-N-(2-methoxy-phenyl)-3-oxo- CAS# 6358-31-2

This product contains an organic pigment which is listed as a hazardous substance. If exposed to high temperatures or fire for an extended period of time, the product may smolder or burn giving off noxious fumes which can include oxides of nitrogen and carbon or other toxic compounds.

This product contains Titanium Dioxide, which is currently listed by OSHA and ACGIH as a nuisance dust hazard.

Exposure Limits for Titanium Dioxide(dust): OSHA (PEL): TWA =15 mg/m3 (total dust) 5mg/m3 (respirable)

ACGIH(TLV): TWA =10 mg/m3 (total dust).

This product contains a Sodium Potassium Aluminum Silicate complex known as Feldspar. This is an inorganic naturally occurring igneous mineral rock devoid of asbestos, free silica or acicular particles. It is non-toxic, posing no silicosis hazard and should be treated as a nuisance dust.

This product contains Barium Sulfate which is listed by OSHA and ACGIH as a nuisance dust. Long term overexposure to barium sulfate dust may produce benign Pneumoconiosis termed "baritosis" and may reduce lung functions.

Exposure Limits For Barium Sulfate: (CAS# 7727-43-7) OSHA (PEL): TWA =10 mg/m3 (total dust), 5 mg/m3 (respirable)

ACGIH(TLV): TWA =10 mg/m3 (total dust).

This product contains Barium Sulfate which is on the New Jersey, Massachusetts or Pennsylvania Right-to-Know Lists.

CAS #7727-43-7

TOLUENE may be harmful to the fetus of laboratory animals. Intentional misuse by deliberate inhalation of TOLUENE has been associated with liver, kidney, nasal and brain damage. Repeated exposure to TOLUENE has been associated with high frequency hearing loss in lab animals. Acute massive exposure to toluene can cause transient hematuria and albuminuria. Cardiac arrhythmias can occur after inhalation. \* Toluene is a potential chronic health hazard.

This product contains toluene (toluol) which is on the New Jersey and Pennsylvania Right-to-Know Lists:

benzene, methyl- CAS# 108-88-3

Chronic overexposure may cause damage to the liver, kidney, eyes, and/or respiratory system.

This product contains Methyl isobutyl ketone(MIBK) which is on the New Jersey and Pennsylvania Right-to-Know Lists.

2-pentanone, 4-methyl- CAS# 108-10-1

This product contains methyl acetate which is on the New Jersey and Pennsylvania Right-to-Know Lists. CAS# 79-20-9

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: Preexisting eye, skin, central nervous system, digestive tract, and respiratory tract. May adversely affect persons with liver, kidney & blood forming organ disorders.

ROUTE(S) OF ENTRY: Inhalation, skin contact absorption, eye contact. Products that are free-flowing liquids or pastes are not expected to have routes of exposure for dust. Dried product residue may exhibit dust inhalation hazards.



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**INHALATION:** May cause moderate irritation to the respiratory tract. Overexposure may have toxic and/or narcotic effects. May cause congestion, headache, dizziness, weakness, nausea, and/or drowsiness. **FIRST AID:** Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and get emergency medical assistance.

**EYE CONTACT:** Liquid, vapor or dust may cause moderate to severe irritation, redness, tearing, blurred vision & pain. Prolonged or chronic overexposure may cause eye damage. **FIRST AID:** Flush eyes with large amounts of water for at least 15 minutes. Hold eyelids apart to flush the entire contaminated area. Get medical help if irritation persists.

**SKIN CONTACT:** May cause moderate to severe skin irritation. May cause burning sensations, defatting and/or dermatitis. Chronic overexposure may cause skin cracking and/or eczema. **FIRST AID:** Remove contaminated clothing and shoes. Wash area with soap and water. Get medical attention as needed.

**SKIN ABSORPTION:** May be absorbed through skin tissues. Chronic overexposure to the skin without using protective barriers (gloves, aprons, etc.) may cause toxic effects.

**INGESTION:** Single dose oral toxicity is low. May cause irritation to the gastrointestinal tract. Ingestion may cause nausea, discomfort, diarrhea, dizziness and vomiting. **FIRST AID:** DO NOT INDUCE VOMITING! Contents of this product pose an inhalation hazard. If aspirated into the lungs, may cause chemical pneumonitis and/or pulmonary edema which can be fatal. Never leave individual unattended, keep head low to prevent aspiration. **SEEK IMMEDIATE MEDICAL ATTENTION!**

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## SECTION VI - REACTIVITY DATA

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**STABILITY:**     \_\_\_ UNSTABLE   XX STABLE

**INCOMPATIBILITY (Materials to avoid):** Keep away from all oxidizing materials, avoid strong acids & alkalis (caustics) and never distill solvents to dryness. Material can react violently under such conditions.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of carbon, nitrogen and/or sulfur & other toxic gases and irritating vapors like aldehydes, amines, HCN, and incompletely burned hydrocarbons.

**HAZARDOUS POLYMERIZATION:**   \_\_\_ May Occur   XX Will Not Occur

**CONDITIONS TO AVOID:** Container is not a pressure vessel. Never use pressure to empty. Do not drag, puncture or drop container (prevent sparking). Dust particles from this product may pose a flammable or explosion hazard. Avoid dust accumulations. Containers should be grounded.

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## SECTION VII - SPILL OR LEAK PROCEDURES

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**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Remove all sources of ignition (flames), electrical static or frictional sparks. Provide good ventilation to spill area. Dike spill area and add inert absorbent. Remove spilled material with non-sparking tools. Avoid breathing vapors and use respirator protective devices (SEE SECTION VIII). Only properly trained personnel should clean spilled hazards. Follow local, state and federal spill notification rules.

**WASTE DISPOSAL:** Waste must be disposed in accordance with federal, state and local regulations. Empty containers must be handled with care as they contain product residue. Before disposing any container, remove as much residue as possible. Waste liquid or dried product should be incinerated or fuel blended at an approved treatment storage disposal facility. Do not reuse containers unless they are properly recycled.

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## SECTION VIII - SAFE HANDLING & USE INFO

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**RESPIRATORY PROTECTION:** In outdoor or open areas with unrestricted ventilation, use NIOSH approved dust mask to protect from overspray or solid airborne particulates. In restricted areas, use a NIOSH approved combination organic vapor and particulate respirator. Reference OSHA 1910.134 for specific guidelines. In confined areas use an airline respirator hood, supplied air respirator or self contained breathing apparatus. See OSHA 1910.146 for more details.

**VENTILATION:** Provide sufficient ventilation to keep hazards at levels below current ACGIH TLV and OSHA PEL of the most hazardous ingredient in SECTION II. Solvent vapors must be removed from the lower levels of work areas and all ignition sources eliminated. Remove decomposition products formed by welding or flame cutting coated surfaces. Dust and particle hazards are elevated during sanding, grinding, or surface preparation of previously coated surfaces.

**SKIN PROTECTION REQUIREMENTS:** Chemical resistant gloves are recommended. Use neoprene, nitrile, or butyl rubber. Cover as much of the exposed skin as possible with appropriate impervious clothing. If skin creams are used, keep the area protected by the cream to a minimum. Do not use skin creams to protect skin when working with acids or acid catalysts.

**EYE PROTECTION:** Eye protection should be worn in any type of industrial operation. The use of chemical goggles and a full face shield to prevent splash from liquids is recommended. Contact lenses should not be worn.

**OTHER PROTECTIVE EQUIPMENT:** The use of chemical resistant protective suit is suggested. Avoid any skin contact with vapors, mists, or spray. Prevent contact of materials with clothing if possible. Remove and wash contaminated clothing before re-use. Use an industrial type professional cleaning service, do not wash at home. Do not wear contaminated clothing or shoes away from the workplace. Leather products contaminated with this product should be discarded.

**HYGIENIC PRACTICES:** Emergency eye wash stations and safety showers are recommended. Wash hands prior to eating, using the washroom or smoking. Precautions must be taken so that persons handling this product do not breathe the vapors or have it contact the skin or eyes. In spray operations, protection must be afforded against exposure to both vapor and spray mist.

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## SECTION IX - SPECIAL PRECAUTIONS

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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store large quantities in buildings designed and protected for storage of flammable liquids. Reference storage conditions in OSHA 1910.106. Avoid high temperature areas and open flames. Do not store above 120 F. Keep closures tight and container upright to avoid leakage.

OTHER PRECAUTIONS: Maintain a clean work area. Use only in a well ventilated area. VHAP=VOLATILE HAZARDOUS AIR POLLUTANT  
CAUTION! DO NOT TAKE INTERNALLY. Avoid breathing vapor/dust.

WARNING! Sudden release of hot organic chemical vapors from equipment operating at elevated temperatures or sudden introduction to vacuum conditions may result in vapor ignition.

NOTICE: The HMIS rating for this material involves data and interpretations compiled from the various material suppliers of the component ingredients. This information will vary from supplier to supplier. The rating is intended for rapid and general identification of this product's hazards. To adequately deal with the safe handling of this material, all information contained in the MSDS must be reviewed as part of an ongoing Hazard Communication Program.

This product complies with the Toxic Substances Control Act (TSCA) 40 CFR 700-799. The Material Safety Data Sheet (MSDS) complies with 29 CFR 1910.1200, Hazardous Communication Std. In the event of a TRANSPORTATION RELATED INCIDENT involving this product, CALL 1-800-688-4005. VOC content is determined by EPA method 24.

SARA Title III: This product is regulated under Section 311- 312 (40CFR370): Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard, Fire Hazard.

WARNING! This product contains chemicals known to the State of California to cause cancer or reproductive harm.

# TRINITY COATINGS COMPANY

1800 PARK PLACE - FORT WORTH, TX 76110

## TRIN-KOTE EH-5182 MDI YELLOW HIGH SOLIDS DIPPING ENAMEL

### DESCRIPTION:

A low V.O.C., modified alkyd enamel. This product has been designed specifically for dipping application of large structural steel items. Provides a direct to metal finish coat at low millage. Finish dries hard with a high gloss. Formulated at V.O.C.'s below 3.0 lbs/gal and a low viscosity that can be adjusted with small amounts of reducer to achieve desired run off. Low in odor, this product demonstrates exceptional transfer efficiency.

### RECOMMENDED USES:

Dipping applications on structural steel items.

### SURFACE PREPARATION:

Be certain surface is clean, free of oil, dirt and grease. Designed for direct to metal applications.

## PROPERTIES

### COLOR:

Yellow

### GLOSS:

80 + sheen

### VISCOSITY:

25 - 30

### SOLIDS:

67.5% +/- 1% by weight

55.4% +/- 1% by volume

### V.O.C.

2.98 lbs/gal. or 356 gr/lit.

### WEIGHT PER GALLON:

9.16 lbs

### DRY TIME:

To Touch: 45-60 minutes

To Handle: 2-4 hours

Recoat: 12 hours

Through Dry: 2-3 days

### THEORETICAL COVERAGE:

889 sq. ft. /gal @ 1.0 dry mils

### REDUCER:

Mineral Spirits, Xylene or 150 Solvent

RECOMMENDED DFT: 1.0 - 2.0 mils

RECOMMENDED WFT: 2.0 - 4.0 mils

### APPLICATION EQUIPMENT:

Dip or Spray

### SAFETY PRECAUTIONS:

This material is intended for use by persons having practical painting skills and experience. The solvents used in these products are volatile, flammable, and can be irritating to the skin. Keep containers closed and away from open flame or heat. Avoid prolonged contact with skin. Adequate, continuous circulation of fresh air must be provided during application and drying.

NOTE: The information, ratings, and opinions stated above pertain to material currently offered and represent the results of laboratory evaluation. Since the customer's application and other requirements are not known, or are not under our control the Company cannot make any warranties or guarantees as to results.

M A T E R I A L   S A F E T Y   D A T A   S H E E T

MDI YELLOW H/S ENAMEL

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PRODUCT NAME: MDI YELLOW H/S ENAMEL  
PRODUCT CODE: EH5182-01

HMIS CODES: H F R P  
2\*3 0

===== SECTION I - MANUFACTURER IDENTIFICATION =====

MANUFACTURER'S NAME: TRINKOTE INDUSTRIAL FINISHES  
ADDRESS : 1800 PARK PLACE AVE.  
FORT WORTH, TX 76110

EMERGENCY PHONE : 1-800-424-9300      DATE PRINTED : 10/15/2007  
INFORMATION PHONE : 817/926-5683      NAME OF PREPARER : TRINKOTE INDUSTRIAL

===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE MM HG @ TEMP	WEIGHT PERCENT
Mineral Spirits	8052-41-3	<2.25    68 F	10% - 20%
ACGIH TLV-TWA = 25 ppm			
ACGIH STEL = 15 ppm			
ACGIH CEILING = N.E.			
OSHA PEL = 25 ppm			
OSHA CEILING = N.E.			
(*) Toluene	108-88-3	22      68 F	10% - 15%
ACGIH TLV-TWA = 50 ppm			
ACGIH STEL = 150 ppm			
ACGIH CEILING = N.E.			
OSHA PEL = 200 ppm			
OSHA CEILING = 300 ppm			
Calcium Carbonate	471-34-1	NA      NA	5% - 10%
ACGIH TLV-TWA = 10 mg/m3			
ACGIH STEL = N.E.			
ACGIH CEILING = N.E.			
OSHA PEL = N.E.			
OSHA CEILING = N.E.			
Titanium Dioxide	13463-67-1	NA      NA	5% - 10%
ACGIH TLV-TWA = N.E.			
ACGIH STEL = N.E.			
ACGIH CEILING = N.E.			
OSHA PEL = 15 mg/m3			
OSHA CEILING = 10 mg/m3			
Aromatic Hydrocarbon	64742-95-6	2.09    68 F	5% - 10%
ACGIH TLV-TWA = 25 ppm			
ACGIH STEL = 150 ppm			
ACGIH CEILING = N.E.			
OSHA PEL = 25 ppm			
OSHA CEILING = N.E.			
(*) 1,2,4-Trimethylbenzene	95-63-6		3% - 5%
ACGIH TLV-TWA = N.E.			
ACGIH STEL = N.E.			
ACGIH CEILING = N.E.			
OSHA PEL = N.E.			
OSHA CEILING = N.E.			
(*) 1,3,5-Trimethylbenzene	108-67-8	0.88    60 F	1% - 3%
ACGIH TLV-TWA = 25 ppm			
ACGIH STEL = N.E.			

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MDI YELLOW H/S ENAMEL

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FULL PROTECTIVE EQUIPMENT AND SELF-CONTAINED BREATHING APPARATUS SHOULD BE USED. WATER SPRAY MAY BE INEFFECTIVE. WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILD-UP AND POSSIBLE AUTO-IGNITION OR EXPLOSION FROM HEATING.

## **UNUSUAL FIRE AND EXPLOSION HAZARDS**

HANDLE AS IGNITABLE LIQUID. KEEP CONTAINERS TIGHTLY CLOSED AND ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS OR FLAME. VAPORS FORM AND EXPLOSIVE MIXTURE IN AIR BETWEEN THE UPPER AND LOWER EXPLOSIVE LIMITS. NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY.

## **===== SECTION V - REACTIVITY DATA =====**

**STABILITY: STABLE**  
**CONDITIONS TO AVOID**  
Poor ventilation.

## **INCOMPATIBILITY (MATERIALS TO AVOID)**

ALKALINE MATERIALS, STRONG ACIDS AND OXIDIZING MATERIALS.

## **HAZARDOUS DECOMPOSITION OR BYPRODUCTS**

THERMAL DECOMPOSITION OR COMBUSTION CAN PRODUCE FUMES OF CARBON DIOXIDE AND CARBON MONOXIDE.

**HAZARDOUS POLYMERIZATION: WILL NOT OCCUR UNDER NORMAL CONDITIONS.**

## **===== SECTION VI - HEALTH HAZARD DATA =====**

### **INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

VAPOR OR MIST CAN CAUSE HEADACHE, NAUSEA AND IRRITATION OF THE NOSE, THROAT, AND LUNGS IN POORLY VENTILATED AREAS. SOLVENT VAPOR OR MIST CAN CAUSE DIZZINESS, BREATHING DIFFICULTY, HEADACHES, IRRITATION TO NOSE AND THROAT, LOSS OF COORDINATION. CONTINUED OVER-EXPOSURE CAN LEAD TO CENTRAL NERVOUS SYSTEM DEPRESSION.

### **SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

SKIN CONTACT: IRRITATING TO THE SKIN ON REPEATED OR PROLONGED CONTACT. EYE CONTACT: DIRECT CONTACT MAY CAUSE EYE IRRITATION.

SKIN CONTACT: CAN CAUSE IRRITATION. CAN CAUSE DEFATTING OF SKIN WHICH CAN LEAD TO DERMATITIS. EYE CONTACT: LIQUID OR VAPOR CAN CAUSE IRRITATION, TEARING DISCOMFORT, REDNESS AND BLURRED VISION.

### **SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

LIQUID CAN BE ABSORBED THROUGH SKIN CAUSING IRRITATION, DEFATTING AND DERMATITIS.

### **INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

CAN CAUSE GASTROINTESTINAL IRRITATION.

CAN CAUSE MOUTH, THROAT, ESOPHAGUS AND STOMACH IRRITATION, NAUSEA, VOMITING, AND DIARRHEA.

## **HEALTH HAZARDS (ACUTE AND CHRONIC)**

ACUTE EFFECTS ARE LISTED ABOVE.

REPORTS HAVE ASSOCIATED REPEATED OR PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING CONTENTS MAY BE HARMFUL OR FATAL.

**CARCINOGENICITY:** NTP CARCINOGEN: No      IARC MONOGRAPHS: Yes

**OSHA REGULATED:** Yes

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MDI YELLOW H/S ENAMEL

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**EYE PROTECTION**

Use chemical safety glasses or goggles (ANSI 287.1-1968).

Avoid contact with eyes. Use safety eyewear with splash guards or side shields, chemical goggles, or face shields.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT**

PROVIDE EYEWASH STATION AND EMERGENCY SHOWER. USE OF PROTECTIVE CREAMS, HEAD CAPS, ETC. IS RECOMMENDED. AVOID CONTACT WITH CONTAMINATED CLOTHING. WASH CONTAMINATED CLOTHING, INCLUDING SHOES, BEFORE REUSE.

**WORK/HYGIENIC PRACTICES**

WASH HANDS BEFORE EATING OR USING WASHROOM, SMOKE IN SMOKING AREAS ONLY.

===== **SECTION IX - DISCLAIMER** =====

To the best of our knowledge, the information contained herein is based on data considered accurate. No warranty expressed or implied is made. Trinkote Industrial Finishes assumes no responsibility for damage to person, property or business caused by the material. It is the responsibility of the purchaser or user of the material to ensure that it is properly used. This MSDS is intended for OSHA regulating purposes only. It is not intended for the reporting of emissions, storm water, waste, or pollution reporting. Any and all such information is made available by specific requests through the Compliance or Laboratory Offices of Trinkote Industrial Finishes.

===== **NOTES** =====

N/A

**AROMATIC 100**



Univar USA Inc.  
17425 NE Union Hill Road  
Redmond, WA 98052  
(425) 889-3400

For Emergency Assistance involving chemicals call - CHEMTREC (800) 424-9300

=====

The Version Date and Number for this MSDS is : 12/10/2007 - #012

PRODUCT NAME: AROMATIC 100  
MSDS NUMBER: EQ940652  
DATE ISSUED: 10/04/2007  
SUPERSEDES: 05/23/2006  
ISSUED BY: 008505

\*\*\*\*\*  
\*\*\*\*\*

#### MATERIAL SAFETY DATA SHEET

#### SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT  
Product Name: AROMATIC 100; SOLVENT 100  
Product Description: Aromatic Hydrocarbon  
Intended Use: Solvent

Distributed by:  
Univar USA Inc.  
17425 NE Union Hill Road  
Redmond, WA 98052  
425-889-3400

Transportation Emergency Phone (800) 424-9300 or  
(703) 527-3887 CHEMTREC

#### SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

Reportable Hazardous Substance(s) or Complex Substance(s)		
Name	CAS#	Concentration*
SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC	64742-95-6	100%

Hazardous Constituent(s) Contained in Complex Substance(s)		
Name	CAS#	Concentration*
CUMENE	98-82-8	< 1.1%
PSEUDOCUMENE (1,2,4-TRIMETHYLBENZENE)	95-63-6	< 32.0%
XYLENES	1330-20-7	< 2.2%

\* All concentrations are percent by weight unless material is a gas.  
Gas concentrations are in percent by volume.



### SECTION 3 HAZARDS IDENTIFICATION

This material is considered to be hazardous according to regulatory guidelines (see (M)SDS Section 15).

#### POTENTIAL PHYSICAL/CHEMICAL EFFECTS

Combustible. Material can release vapors that readily form flammable mixtures. Vapor accumulation could flash and/or explode if ignited.

Material

can accumulate static charges which may cause an incendiary electrical discharge.

#### POTENTIAL HEALTH EFFECTS

Repeated exposure may cause skin dryness or cracking. If swallowed, may be aspirated and cause lung damage. May be irritating to the eyes, nose, throat, and lungs. May cause central nervous system depression.

#### ENVIRONMENTAL HAZARDS

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

NFPA Hazard ID:	Health: 1	Flammability: 2	Reactivity: 0
HMIS Hazard ID:	Health: 1	Flammability: 2	Reactivity: 0

NOTE: This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

### SECTION 4 FIRST AID MEASURES

#### INHALATION

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

#### SKIN CONTACT

Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.

#### EYE CONTACT

Flush thoroughly with water. If irritation occurs, get medical assistance.

#### INGESTION

Seek immediate medical attention. Do not induce vomiting.

#### NOTE TO PHYSICIAN

If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

### SECTION 5 FIRE FIGHTING MEASURES

#### EXTINGUISHING MEDIA

Appropriate Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames.

Inappropriate Extinguishing Media: Straight Streams of Water

## FIRE FIGHTING

Fire Fighting Instructions: Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Unusual Fire Hazards: Vapors are flammable and heavier than air. Vapors may travel across the ground and reach remote ignition sources causing a flashback fire danger. Hazardous material. Firefighters should consider protective equipment indicated in Section 8.

Hazardous Combustion Products: Oxides of carbon, Incomplete combustion products, Smoke, Fume

## FLAMMABILITY PROPERTIES

Flash Point (Method): >42C (108F) (ASTM D-56)

Flammable Limits (Approximate volume % in air): LEL: 0.9 UEL: 6.2

Autoignition Temperature: 479 C (894 F)

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. US regulations require reporting releases of this material to the environment which exceed the applicable reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800)424-8802.

### PROTECTIVE MEASURES

Avoid contact with spilled material. Warn or evacuate occupants in surrounding and downwind areas if required due to toxicity or flammability of the material. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for Personal Protective Equipment.

### SPILL MANAGEMENT

Land Spill: Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do it without risk. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Prevent entry into waterways, sewer, basements or confined areas. A vapor suppressing foam may be used to reduce vapors. Use clean non-sparking tools to collect absorbed material. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

Large Spills: Water spray may reduce vapor; but may not prevent ignition in closed spaces. Recover by pumping or with suitable absorbent.

Water Spill: Stop leak if you can do it without risk. Eliminate sources of ignition. Warn other shipping. If the Flash Point exceeds the Ambient Temperature by 10 degrees C or more, use containment booms and remove from the surface by skimming or with suitable absorbents when conditions permit. If the Flash Point does not exceed the Ambient Air Temperature by at least 10C, use booms as a barrier to protect shorelines and allow material to evaporate. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

#### ENVIRONMENTAL PRECAUTIONS

Large Spills: Dike far ahead of liquid spill for later recovery and disposal.

Prevent entry into waterways, sewers, basements or confined areas.

#### SECTION 7 HANDLING AND STORAGE

##### HANDLING

Avoid contact with skin. Potentially toxic/irritating fumes/vapors may be evolved from heated or agitated material. Use only with adequate ventilation.

Use proper bonding and/or grounding procedures. Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source).

Loading/Unloading Temperature: (Ambient)

Transport Temperature: (Ambient)

Transport Pressure: (Ambient)

Static Accumulator: This material is a static accumulator.

##### STORAGE

Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area. Storage containers should be grounded and bonded. Drums must be grounded and

bonded and equipped with self-closing valves, pressure vacuum bungs and flame arresters.

Storage Temperature: (Ambient)

Storage Pressure: (Ambient)

Suitable Containers/Packing: Railcars; Tank Trucks; Barges; Drums; Tankers

Suitable Materials and Coatings: Carbon Steel; Stainless Steel; Copper Bronze; Inorganic Zinc Coatings; Epoxy Phenolic; Polyamide Epoxy; Amine Epoxy; Viton

Unsuitable Materials and Coatings: Vinyl Coatings; Butyl Rubber; Natural Rubber; Ethylene-propylene-diene monomer (EPDM); Polyethylene; Polystyrene; Polypropylene; PVC; Polyacrylonitrile

#### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

##### EXPOSURE LIMIT VALUES

Exposure limits/standards (Note: Exposure limits are not additive)

Source	Form	Limit/Standard	Note	Source
CUMENE	TWA	245 mg/m3 50 ppm	Skin	OSHA Z1
CUMENE	TWA	50 ppm	N/A	ACGIH
PSEUDOCUMENE (1,2,4-TRIMETHYLBENZENE)	TWA	25 ppm	N/A	ACGIH
SOLVENT NAPHTHA (PETROLEUM), Vapor. ExxonMobil	RCP	19 ppm 100	Total	

LIGHT AROMATIC	TWA	mg/m3	Hydro-carbons	
XYLENES	TWA	435 mg/m3	100 ppm	N/A OSHA Z1
XYLENES	STEL	150 ppm		N/A ACGIH
XYLENES	TWA	100 ppm		N/A ACGIH

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

#### ENGINEERING CONTROLS

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider: Adequate ventilation should be provided so that exposure limits are not exceeded. Use explosion-proof ventilation equipment.

#### PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

**Respiratory Protection:** If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

Half-face filter respirator

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

**Hand Protection:** Any specific glove information provided is based on published literature and glove manufacturer data. Work conditions can greatly affect glove durability; inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include: If prolonged or repeated contact is likely, chemical resistant gloves are recommended. If contact with forearms is likely, wear gauntlet style gloves.

**Eye Protection:** If contact is likely, safety glasses with side shields are recommended.

**Skin and Body Protection:** Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include: If prolonged or repeated contact is likely, chemical, and oil resistant clothing is recommended.

**Specific Hygiene Measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

#### ENVIRONMENTAL CONTROLS

See Sections 6, 7, 12, 13.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Typical physical and chemical properties are given below. Consult the Supplier in Section 1 for additional data.

### GENERAL INFORMATION

Physical State: Liquid

Form: Clear

Color: Colorless

Odor: Aromatic

Odor Threshold: N/D

### IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

Relative Density (at 15.6 C ): 0.874

Density (at 15 C): 873 kg/m<sup>3</sup> (7.29 lbs/gal, 0.87 kg/dm<sup>3</sup>)

Flash Point (Method): >42C (108F) (ASTM D-56)

Flammable Limits (Approximate volume % in air): LEL: 0.9 UEL: 6.2

Autoignition Temperature: 479 C (894 F)

Boiling Point/Range: 161C (322F) - 171C (340F)

Vapor Density (Air = 1): 4.2 at 101 kPa

Vapor Pressure: 0.262 kPa (1.97 mm Hg) at 20 C 10.815 kPa (6.13 mm Hg) at 38C

Evaporation Rate (n-butyl acetate = 1): 0.27

pH: N/A

Log Pow (n-Octanol/Water Partition Coefficient): N/D

Solubility in Water: Negligible

Viscosity: 0.75 cSt (0.75 mm<sup>2</sup>/sec ) at 40 C 0.9 cSt (0.9 mm<sup>2</sup>/sec) at 25C

Oxidizing Properties: See Sections 3, 15, 16.

### OTHER INFORMATION

Freezing Point: -14 C (7 F)

Melting Point: N/D

Molecular Weight: 121

Hygroscopic: No

Coefficient of Thermal Expansion: 0.00085 VNDEGC

## SECTION 10 STABILITY AND REACTIVITY

STABILITY: Material is stable under normal conditions.

CONDITIONS TO AVOID: Avoid heat, sparks, open flames and other ignition sources.

MATERIALS TO AVOID: Strong oxidizers, Nitric acid, Sulfuric acid

HAZARDOUS DECOMPOSITION PRODUCTS: Material does not decompose at ambient temperatures.

HAZARDOUS POLYMERIZATION: Will not occur.

## SECTION 11 TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY

Route of Exposure

Toxicity: Data available.  
the

Irritation: Data available.

be

Conclusion/Remarks Inhalation

Minimally Toxic. Based on test data for  
material.

Elevated temperatures or mechanical action  
may form vapors, mist, or fumes which may

	irritating to the eyes, nose, throat, or lungs. Based on test data for structurally similar materials.
Ingestion	
Toxicity: LD50 > 3000 mg/kg	Minimally Toxic. Based on test data for structurally similar materials.
Skin	
Toxicity: LD50 > 3160 mg/kg	Minimally Toxic. Based on test data for
the	material.
Irritation: Data available.	Mildly irritating to skin with prolonged exposure. Based on test data for the material.
Eye	
Irritation: Data available.	May cause mild, short-lasting discomfort
to	eyes. Based on test data for the material.

#### CHRONIC/OTHER EFFECTS

For the product itself:  
 Vapor/aerosol concentrations above recommended exposure levels are irritating to the eyes and respiratory tract, may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness and other central nervous system effects including death.  
 Prolonged and/or repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis.  
 Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.  
 Contains:  
 CUMENE: Repeated inhalation exposure of cumene vapor produced damage in the kidney of male rats only. These effects are believed to be species specific and are not relevant to humans.

Additional information is available by request.

The following ingredients are cited on the lists below: None.

#### --REGULATORY LISTS SEARCHED--

1 = NTP CARC	3 = IARC 1	5 = IARC 2B
2 = NTP SUS	4 = IARC 2A	6 = OSHA CARC

#### SECTION 12 ECOLOGICAL INFORMATION

The information given is based on data available for the material, the components of the material, and similar materials.

#### ECOTOXICITY

Material -- Expected to be toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

#### MOBILITY

Material -- Highly volatile, will partition rapidly to air. Not expected to partition to sediment and wastewater solids.

#### PERSISTENCE AND DEGRADABILITY

##### Biodegradation:

Material -- Expected to be readily biodegradable.

##### Hydrolysis:

Material -- Transformation due to hydrolysis not expected to be

significant.  
Photolysis:  
Material -- Transformation due to photolysis not expected to be significant.  
Atmospheric Oxidation:  
Material -- Expected to degrade rapidly in air

OTHER ECOLOGICAL INFORMATION  
VOC (EPA Method 24): 7.294 lbs/gal

#### SECTION 13 DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

#### DISPOSAL RECOMMENDATIONS

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.

#### REGULATORY DISPOSAL INFORMATION

RCRA Information: Disposal of unused product may be subject to RCRA regulations (40 CFR 261). Disposal of the used product may also be regulated due to ignitability, corrosivity, reactivity or toxicity as determined by the Toxicity Characteristic Leaching Procedure (TCLP). Potential RCRA characteristics: IGNITABILITY.

#### Empty Container Warning

Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

#### SECTION 14 TRANSPORT INFORMATION

##### LAND (DOT)

Proper Shipping Name: PETROLEUM DISTILLATES, N.O.S.  
Hazard Class & Division: COMBUSTIBLE LIQUID  
ID Number: 1268  
Packing Group: III  
Product RQ: 4545.45 lbs - XYLENES  
ERG Number: 128  
Label(s): NONE  
Transport Document Name: UN1268, PETROLEUM DISTILLATES, N.O.S., COMBUSTIBLE LIQUID, PG III, RQ (Xylenes)

Footnote: The flash point of this material is greater than 100 F.

##### Regulatory

classification of this material varies. DOT: Flammable liquid or combustible liquid. OSHA: Combustible liquid. IATA/IMO: Flammable liquid. This material is not regulated under 49 CFR in a container of 119 gallon capacity or less when transported solely by land, as long as the material is not a hazardous

waste, a marine pollutant, or specifically listed as a hazardous substance.

LAND (TDG)

Proper Shipping Name: PETROLEUM DISTILLATES, N.O.S.

Hazard Class & Division: 3

UN Number: 1268

Packing Group: III

SEA (IMDG)

Proper Shipping Name: PETROLEUM DISTILLATES, N.O.S.

Hazard Class & Division: 3

EMS Number: F-E, S-E

UN Number: 1268

Packing Group: III

Label(s): 3

Transport Document Name: UN1268, PETROLEUM DISTILLATES, N.O.S., 3, PG III,  
(42 deg C c.c.)

AIR (IATA)

Proper Shipping Name: PETROLEUM DISTILLATES, N.O.S.

Hazard Class & Division: 3

UN Number: 1268

Packing Group: III

Label(s): 3

Transport Document Name: UN1268, PETROLEUM DISTILLATES, N.O.S., 3, PG III

SECTION 15 REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD: When used for its intended purpose,  
this  
material is classified as hazardous in accordance with OSHA 29CFR  
1910.1200.

NATIONAL CHEMICAL INVENTORY LISTING:

PICCS, EINECS, IECSC, DSL, AICS, ENCS, TSCA, KECI

EPCRA: This material contains no extremely hazardous substances.

CERCLA: This material is not subject to any special reporting under the  
requirements of the Comprehensive Environmental Response, Compensation  
and Liability Act (CERCLA). Contact local authorities to determine if  
other reporting requirements apply.

CERCLA:

Chemical Name	CAS Number	Typical Value	Component RQ	Product RQ
CUMENE	98-82-8	< 1.1%	5000 lbs	454545.45 lbs
XYLENES	1330-20-7	< 2.2%	100 lbs	4545.45 lbs

CWA/OPA: This product is classified as an oil under Section 311 of the  
Clean  
Water Act (40 CFR 110) and the Oil Pollution Act of 1990. Discharge or  
spills  
which produce a visible sheen on either surface water, or in  
waterways/sewers  
which lead to surface water, must be reported to the National Response  
Center  
at 800-424-8802.

SARA (311/312) REPORTABLE HAZARD CATEGORIES: Fire. Immediate Health.

SARA (313) TOXIC RELEASE INVENTORY:

Chemical Name	CAS Number	Typical Value
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CUMENE	98-82-8	< 1.1%
PSEUDOCUMENE (1,2,4-TRIMETHYLBENZENE)	95-63-6	< 32%
XYLENES	1330-20-7	< 2.2%

The Following Ingredients are Cited on the Lists Below:

Chemical Name	CAS Number	List Citations
CUMENE	98-82-8	1, 4, 13, 16, 17, 18, 19
PSEUDOCUMENE TRIMETHYLBENZENE)	95-63-6	1, 13, 16, 17, 18, 19 (1,2,4-
XYLENES	1330-20-7	1, 4, 5, 9, 13, 15, 16, 17, 18, 19

--REGULATORY LISTS SEARCHED--

1 = ACGIH ALL RTK	6 = TSCA 5a2	11 = CA P65 REPRO	16 = MN
2 = ACGIH A1 RTK	7 = TSCA 5e	12 = CA RTK	17 = NJ
3 = ACGIH A2 RTK	8 = TSCA 6	13 = IL RTK	18 = PA
4 = OSHA Z RTK	9 = TSCA 12b	14 = LA RTK	19 = RI
5 = TSCA 4	10 = CA P65 CARC	15 = MI 293	

Code key: CARC=Carcinogen; REPRO=Reproductive

SECTION 16 OTHER INFORMATION

N/D = Not determined, N/A = Not applicable

For Additional Information:

Contact: MSDS Coordinator - Univar USA

During business hours, Pacific Time - (425) 889-3400

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END OF MSDS



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ENVIRONMENTAL QUALITY

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Boise, Idaho 83706-1253

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SOURCE		Cash <input type="checkbox"/> Check <input checked="" type="checkbox"/> Money Order <input type="checkbox"/> No. 43047			
DESCRIPTION		AMOUNT OF PAYMENT			
PTC modification		1000.00			
# P 2008-0084					
RECEIVED BY		TOTAL RECEIVED			
		1000.00			
PID	OBS	CA	SUB-OBJ	WP	BE

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